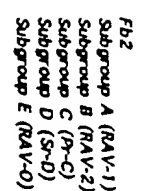


FIG. 1

BEST AVAILABLE COPY



### Hyperarable Region 1

Sequence Primers (PAs) →

1	A	C	A	G	C	T	G	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	A	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	A	A	T	H	T	C	T	G		55
2	C	T	A	A	C	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		56			
3	C	T	A	C	A	A	A	C	T	G	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		57		
4	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		58	
5	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		59	
6	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		60	
7	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		61	
8	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		62	
9	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		63	
10	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		64	
11	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		65	
12	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		66	
13	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		67	
14	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A		68	
15	C	T	G	T	G	C	A	G	C	T	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	C	C	T	C	T	C	A	T	T	A	T	A	T	A	T	A	T	A	G	C	T	C	C	A			



Sense Primer (PA1)

subgroup A (RAV-1) 1 C T A C A G C T G T T A G G T T C C A G T C T C T C C T A A C A T T A C T A 40  
2F 1 A C A G C T G T T A G G T T C C A G T T T T T C C C T C A C A T T A C T A 37  
65 1 T A C A G C T G T T A G G T T C C A G T C T C T C C T A A C A T T A C T A 39  
subgroup E (RAV-0) 1 C T A C A G C T G C T A G G T T C C A G T C T C T C C T A A C A T T A C T A 40  
7Q 1 C A G C T G T T A G G T T C C A G T T T C T C C C T A A C A T T A C T A 37  
10Q 1 C T A C A G C T G T T A G G T T C C A G T C T C C C T A A C A T T A C T A 40  
6F 1 C A G C T G T T A G G T T C C A G T C T C T C C T A A C A T T A C T A 37  
207 1 G C T G T T A G G T T C C A G T C T C T C C T A A C A T T A C T A 35

Hypervariable Region 1

subgroup A (RAV-1) 41 A T A T T A C T C A G A T C T C C G G T G T A A C C G G G G G A T G C G T A G G 80  
2F 38 A T A T T A C T C A A A T T T C T G G T G T A A C C G G A G G A G C G T A G G 77  
65 40 A C A T A C T C A A A T T T C T G G T G T A A C C G G A G G A T G C G T A G G 78  
subgroup E (RAV-0) 41 A T A T T A C T C A G A T T T C T G G T G T A A C C G G G G G A T G C G T A G G 80  
7Q 38 A T A T T A C T C A G A T T T C T G G T G T A A C T G G G G G A T G C G T A G G 77  
10Q 41 A T A T T A C T C A G A T T T C T G G T G T A A C C G G G G G A T G C G T A G G 80  
6F 38 A T A T T A C T C A G A T T T C T G G T G T A A C T G G G G G A T G C G T A G G 80  
207 36 A T A T T A C T C A G A T T T C T G G T G T A A C C G G G G G A T G C G T A G G 75

subgroup A (RAV-1) 81 C T T C A G G C C A A A A G G G G T T C C T T G . . . G T A T C T G G G T T G 116  
2F 78 C T T T A G A C C A G G A G G G A T C C C C T G . . . G T A T A T A G G A T G 113  
65 79 C T T T A G A C C A G G A G G G A T C C C C T G . . . G T A T A T G G G A T G 114  
subgroup E (RAV-0) 81 C T T C G C C C C A C A C T C C A A T C C A A G T G G T G T C T A C G G G T G G 120  
7Q 78 C T T C A C C C C A C A C T C C A A T C C A A G T G G T G T T T A C G G G T G G 117  
10Q 81 C T T C G C C C C A C A C T C C A A T C C A A G T G G T G T C T A C G G G T G G 120  
6F 78 C T T C A C C C C A C A C T C C A A T C C A A G T G G T G T T T A C G G G T G G 117  
207 76 C T T C A C C C C A C A C T C C A A T C C A A G T G G T G T C T A C G G G T G G 115

subgroup A (RAV-1) 117 G T C T - - A G A C A G G A - - - - - A G C C A C C G C G G T T T C T C C T T 147  
2F 114 G A C T - - A G A C A G G A - - - - - A G C C A C C A C G G T T C C T C C T T 144  
65 115 G A C T - - A G A C A G G A - - - - - A G C C A C C A C G G T T C C T C C T T 145  
subgroup E (RAV-0) 121 G G C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T 160  
7Q 118 G A C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T 157  
10Q 121 G G C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T 160  
6F 118 G G C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T 157  
207 116 G G C C G G A G A C A G G T T A C A C A C A A C T T C T T G A T C G C C C C G T 155

subgroup A (RAV-1) 148 A G A - C G C C C C T C T T T C T - - - - - C T A A C T C C T C G A A 176  
2F 145 A G A - C A A T C C T C C T T T T - - - - - C T A A T T C C A C G G A 173  
65 146 A A A - C A A T C C T C C T T T T - - - - - C T A A T T C C A C G G A 174  
subgroup E (RAV-0) 161 G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A 200  
7Q 158 G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A 197  
10Q 161 G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A 200  
6F 158 G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A 197  
207 156 G G G T C A A T C C T T T C T T T A A C A G C G C T T C T A A C T C C A C G G A 195

Antisense Primer (PA2)

subgroup A (RAV-1) 177 A C C G T T T A C A G T G G T G A C A G C G G A T A G G C 205  
2F 174 A C C A T T T A C G G T G G T G A C A G C G G A T A G G C 202  
65 175 A C C A T T T A C G G T G G T G A C A G C G G A T A G G C 203  
subgroup E (RAV-0) 201 A C C G T T T A C G G T G G T G A C A G C G G A T A G G C 228  
7Q 198 A C C G T T T A C G G T G G T G A C A G C G G A T A G G C 225  
10Q 201 A C C G T T T A C G G T G G T G A C A G C G G A T A G G C 229  
6F 198 A C C G T T T A C G G T G G T G A C A G C G G A T A G G C 226  
207 196 A C C G T T T A C G G T G G T G A C A G C G G A T A G G C 224

FIG. 3